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AMENDMENT TO THE CLAIMS

Please amend the claims as follows:

1. (Original) An electrochemical cell comprising:

a first electrochemical cell component having a mating surface;

a cured sealant composition disposed over the mating surface of the first electrochemical cell component, wherein the cured sealant composition comprises reaction products of a polymerizable (meth)acrylate component and a boron-containing initiator; and

a second electrochemical cell component having a mating surface abuttingly disposed over the cured sealant composition to provide a seal thereat.

2. (Original) The cell of claim 1, wherein the mating surface of the first cell is a plastic or plastic-containing substrate.

Claim 3. (Cancelled)

- 4. (Original) The cell of claim 2, wherein the plastic or plasticcontaining substrate is a molded substrate selected from the group consisting of an injection molded substrate, a compression molded substrate and combinations thereof.
- 5. (Original) The cell of claim 2, wherein the substrate is a machined substrate or a vacuum-formed substrate.
- (Original) The cell of claim 2, wherein the plastic or plasticcontaining substrate is electrically conductive or includes electrically conductive particles.

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- 7. (Previously Presented) The cell of claim 1, wherein the cured composition is adhesively bonded to the mating surface of the first cell, and further wherein the cured sealant composition is adhesively bonded to the mating surface of the second fuel cell.
- 8. (Previously Presented) The cell of claim 1, wherein the cured composition is adhesively bonded to the mating surface of the first cell, and further wherein the cured sealant composition is not adhesively bonded to the mating surface of the second fuel cell.
- 9. (Original) The cell of claim 1, wherein the first cell component is selected from the group consisting of a cathode flow field plate, an anode flow field plate, a gas diffusion layer, an anode catalyst layer, a cathode catalyst layer, a membrane electrolyte, a membrane-electrode-assembly frame, and combinations thereof.
- 10. (Original) The cell of claim 9, wherein the second cell component is selected from the group consisting of a cathode flow field plate, an anode flow field plate, a gas diffusion layer, an anode catalyst layer, a cathode catalyst layer, a membrane electrolyte, a membrane-electrode-assembly frame, and combinations thereof, provided that the second cell component is different from the first cell component.
- 11. (Original) The cell of claim 1, wherein the cured sealant composition comprises a curable (meth)acrylate component, wherein the curable (meth)acrylate component comprises a mono-functional (meth)acrylate component, a poly-functional (meth)acrylate component, and combinations thereof.

Claims 12-13. (Cancelled)

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14. (Original) The cell of claim 1, wherein the boron-containing initiator comprises an alkyl borohydride.

15. (Original) The cell of claim 14, wherein the alkyl borohydride is embraced by compounds of the following structure:

wherein R⁵ is a C₁ to C₁₀ alkyl,

 R^6 , R^7 and R^8 which may be the same or different, are H, C_1 to C_{10} alkyl, C_3 to C_{10} cycloalkyl, phenyl, phenyl-substituted C_1 to C_{10} alkyl, or phenyl substituted C_3 to C_{10} cycloalkyl, provided that any two of R^1 , R^2 , R^3 and R^4 may optionally be part of a carbocyclic ring, and

M⁺ is a metal ion, an alkyloxy metal ion, an alkali metal ion, a quaternary ammonium cation, and combinations thereof.

16. (Original) The cell of claim 14, wherein the alkyl borohydride is embraced by compounds of the following structure:

$$1/m M^{m+}$$

$$R^{9} \bigoplus_{H_{2}C} X$$

$$R^{10} H_{2}C$$

wherein X is O, S, or CHR¹³;

G is
$$-(CR^{11}R^{12})_n$$
 or

 R^9 and R^{10} , which may be the same or different, are substituted or unsubstituted C_{1-10} alkyl, or unsubstituted aryl or substituted aryl groups having from

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about 6 to about 12 carbon atoms;

R¹¹, R¹² and R¹³, which may be the same or different, are hydrogen, substituted or unsubstituted C₁₋₁₀ alkyl, substituted or unsubstituted C₁₋₁₀ alkylene, unsubstituted aryl, substituted aryl groups having from about 7 to about 12 carbon atoms;

n is the integer from about 1 to about 5;

M is a Group IA metal, Group IIA metal, ammonium, tetraalkylammonium, phosphonium, or metal complex; and

m is from +1 to +7.

- (Original) The cell of claim 1, wherein the boron-containing initiator 17. further includes a polyfunctional aziridine.
- (Original) The cell of claim 1, wherein the boron-containing initiator 18. is a complex of an organoborane and polyaziridine, wherein the organoborane/polyaziridine complex is embraced by compounds of the following structure:

$$R^{15} - \begin{bmatrix} R^{14} & \\ R^{16} & \\ R^{16} & \\ \end{bmatrix} R^{17} + \begin{pmatrix} R^{18} \\ R^{19} \end{pmatrix}_{y} \end{bmatrix}_{x}$$

wherein R¹⁴ is a C₁₋₁₀ alkyl;

R¹⁵ and R¹⁶, which may be the same or different, are C₁₋₁₀ alkyl, C₃₋₁₀ cycloalkyl, phenyl, phenyl substituted C₁₋₁₀ alkyl or C₃₋₁₀ cycloalkyl, provided that any two of R¹⁴, R¹⁵ and R¹⁶ may optionally be part of a carbocyclic ring;

 R^{17} is a polyvalent C_{1-60} alkyl, C_{6-65} aryl, C_{7-66} alkylaryl, optionally substituted or interrupted by one or more hetero-atoms or hetero-atom containing groups;

> R¹⁸ and R¹⁹, which may be the same or different, are H or C₁₋₁₀ alkyl; y from about 1 to about 4; and

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x is from about 2 to about 15, provided that y is at least 1.3 times greater than x.

19. (Original) The cell of claim 1, wherein the boron-containing initiator is a complex of a trialkyl borane or alkyl cycloalkyl borane and an amine compound,

wherein the amine compound of the organoborane/amine complex is selected from the group consisting of (1) amines having an amidine structural component; (2) aliphatic heterocycles having at least one nitrogen in the heterocyclic ring, wherein the heterocyclic compound may also contain one or more nitrogen atoms, oxygen atoms, sulfur atoms, or double bonds in the heterocycle; (3) primary amines which, in addition, have one or more hydrogen bond accepting groups wherein there are at least two carbon atoms between the primary amine and the hydrogen bond accepting group, such that due to inter- or intramolecular interactions within the complex, the strength of the B-N bond is increased; and (4) conjugated imines; and

wherein the trialkyl borane or alkyl cycloalkyl borane corresponds to the formula:

$$(R^{20})_3$$
 B ;

the primary amine corresponds to the formula:

$$---NH_2(CH_2)b---(C(R^{21})_2)_a;$$

the organoborane heterocyclic amine complex corresponds to the formula:

$$\sim$$
 NH (CHR²²), ;

the organoborane amidine complex corresponds to the formula:

$$R^{24}$$
— C — NR^{23} ; and

the organoborane conjugated imine complex corresponds to the formula

$$---NR^{25}$$
= CR^{26} - $(CR^{26}$ = $CR^{26})_c$;

wherein B is boron;

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 R^{20} is a C_{1-10} alkyl, C_{3-10} cycloalkyl or a cycloaliphatic ring structure formed from two or more of the C_{1-10} alkyl or the C_{3-10} cycloalkyl;

R²¹ is hydrogen, a C₁₋₁₀ alkyl or C₃₋₁₀ cycloalkyl;

R²² is hydrogen, a C₁₋₁₀ alkyl or C₃₋₁₀ cycloalkyl;

R²³, R²⁴, and R²⁵, which may be the same or different, are hydrogen, C₁₋₁₀ alkyl, C₃₋₁₀ cycloalkyl, or two or more of R²³, R²⁴ and R²⁵ in any combination can combine to form a ring structure which can be a single ring or a multiple ring structure and the ring structure can include one or more of nitrogen, oxygen or unsaturation in the ring structure;

R²⁶ is hydrogen, C₁₋₁₀ alkyl or C₃₋₁₀ cycloalkyl, Y,

 $-(C(R^{26})_2-(CR^{26}=CR^{26})_C-Y)$ or two or more of R^{26} can combine to form a ring structure, or one or more of R^{26} an form a ring structure with Y provided the ring structure is conjugated with respect to the double bond of the imine nitrogen; Y is independently in each occurrence hydrogen, $N(R^{27})_2$, OR^{27} , $C(O)OR^{27}$, a halogen or an alkylene group which forms a cyclic ring with R^{25} or R^{26} ;

 R^{27} is hydrogen, C_{1-10} alkyl, C_{3-10} cycloalkyl, C_{6-10} aryl or alkaryl;

Z is oxygen or ~NR²⁷;

a is an integer of from 1 to 10;

b is 0 or 1, with the proviso that the sum of a and b should be from 2 to 10;

c is an integer of from 1 to 10;

x is an integer of 1 to 10, with the proviso that the total of all occurrences of x is from 2 to 10; and

y is separately in each occurrence 0 or 1.

Claim 20. (Cancelled)

(Original) A method for forming an electrochemical cell comprising:
 providing a first and a second electrochemical cell component each having
 a mating surface;

applying a curable sealant composition to the mating surface of at least

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one of the first electrochemical cell component or the second electrochemical cell component, wherein the curable sealant composition comprises a polymerizable (meth)acrylate component and a boron-containing initiator;

curing the sealant composition; and

aligning the mating surface of the second electrochemical cell component with the mating surface of the first electrochemical cell component.

22. (Original) A method for forming an electrochemical cell comprising: providing a first electrochemical cell component having a mating surface; aligning a mating surface of a second electrochemical cell component with the mating surface of the first electrochemical cell component;

applying a curable sealant composition to at least a portion of the mating surface of at least one of the first or second electrochemical cell components, wherein the curable sealant composition comprises a polymerizable (meth)acrylate component and a boron-containing initiator; and

curing the sealant composition.

Claims 23-26. (Cancelled)

- 27. (Previously Presented) The method of claim 21, wherein the boron-containing initiator comprises an alkyl borohydride, an organoborane/polyaziridine complex, a complex of a trialkyl borane or alkyl cycloalkyl borane and an amine compound, and combinations thereof.
- 28. (Previously Presented) The method of claim 21, wherein the electrochemical cell is a fuel cell.